



DT Progression Mapping



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	<p>I can develop my own ideas related to the task and choose the right materials to express them.</p> <p>I can create collaboratively sharing ideas, resources & skills</p>	<p>I can develop my own ideas through experimentation with diverse materials to express & communicate their discoveries & understanding</p> <p>I can follow design criteria to up with my own product</p> <p>I can discuss my design ideas as a whole class</p> <p>I can draw and label my design</p> <p>I can design a picture with a moving mechanism</p> <p>I can choose to use a sliding mechanism, levers/pivots or wheel mechanism for my moving picture</p> <p>I can follow a design brief to create my moving picture</p>	<p>I can use scissors correctly and with purpose to create a product</p> <p>I can follow design criteria as part of a group</p> <p>I can create a detailed design of my product using accurate labels to show what materials and tools I am using</p> <p>I can think about the purpose and use of my product</p> <p>I can create simple adverts for my product focusing on the quality, design and benefits</p> <p>I can create animated slide shows (power points) to 'advertise' my product</p>	<p>I can follow design criteria to come up with my own project</p> <p>I can discuss my design ideas as part of a group</p> <p>I can create a detailed design of my product using accurate labels to show what materials and tools I am using</p> <p>I can think about the purpose and use of my product</p> <p>I can consider the purpose and functionality of a product before I design it</p> <p>I can discuss my ideas as part of a group</p> <p>I can create my detailed design using labels, model mock ups and ICT (where appropriate)</p> <p>I can write about who my product is for and explain why it will be useful, using examples</p>	<p>I can begin to research products using ICT/books before the design process</p> <p>I can use research to develop design criteria</p> <p>I can follow my own design criteria to come up with a [product]</p> <p>I can plan what materials and components I will use to make my [product]</p> <p>I can consider the purpose and functionality of a product before I design it</p> <p>I can discuss my ideas as part of a group</p> <p>I can write about what my product is used for and explain why it is useful, giving examples</p>	<p>I can use a diagram to design a product and label and annotate my design</p> <p>I can use ICT/books to research my product and its functionality</p> <p>I can use research to develop design criteria</p> <p>I can follow the design criteria of a product and come up with my own design</p> <p>I can discuss my design ideas as part of a group</p> <p>I can consider the purpose and functionality of a product before I design it</p> <p>I can write about what my product is used for and explain why it is useful, giving examples</p>	<p>I can use research and develop design criteria to design innovative, functional and appealing products that are fit for purpose.</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, diagrams (cross-sectional, exploded), prototypes, pattern pieces and computer aided design</p> <p>I can produce detailed, step by step plans that can be followed by myself and by others</p> <p>I can use my previous knowledge to plan what tools and materials I will need to complete my product</p> <p>I can suggest alternative plans and say what the good points/drawbacks of each are</p>	<p>I can use research and develop design criteria to create innovative, functional and appealing products that are fit for purpose</p> <p>I can use the results of investigations, information sources, including ICT when developing ideas</p> <p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, diagrams (cross-sectional, exploded), prototypes, pattern pieces and computer aided design</p> <p>I can produce detailed, step by step plans that can be followed by myself and by others</p> <p>I can use my previous knowledge to plan what tools and materials I will need to complete my product</p> <p>I can suggest alternative plans and say what the good points/drawbacks of each are</p>
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Make

Learning Objectives:

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	<p>I can use various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces</p> <p>I can use available resources to create props or creates imaginary ones to support play</p>	<p>I can use increasing knowledge and understanding of tools and materials to explore my interests , and develop my thinking</p> <p>I can create representations of both imaginary & real-life ideas, events, people & objects</p>	<p>I can use scissors to safely cut</p> <p>I can cut, fold and join.</p> <p>I can create a simple sliding mechanism</p> <p>I can use levers and pivots to create a moving mechanism</p> <p>I can make a simple wheel mechanism</p> <p>I can follow my design to make a product</p>	<p>I can make my [product] based on my own design</p> <p>I can select the correct materials from a range to create my [product]</p> <p>I can select the correct tool to create my [product]</p> <p>I can tools and equipment safely and accurately to create my [product]</p> <p>I can safely use a needle and thread to sew and attach</p> <p>I can use simple sewing skills, i.e. running stitch, to create a [product]</p> <p>I can use a saw and woodblock safely</p> <p>I can use a glue gun safely</p>	<p>I can select and use a wide range of materials to create my product</p> <p>I can begin to measure and mark out using a rule in cm before cutting materials</p> <p>I can use a vice to secure materials before cutting</p> <p>I can use a saw safely to cut materials</p>	<p>I can select the correct equipment from a range of tools and materials to create my product</p> <p>I can cut, shape, join and finish my product using the correct equipment</p> <p>I can measure and cut materials accurately using a ruler to mark out.</p> <p>I can cut use a saw and woodblock</p>	<p>I can demonstrate skill in using different tools and equipment safely and accurately</p> <p>I can cut and join with accuracy to ensure a good quality finished product</p> <p>I can reinforce and strengthen and 3D framework</p> <p>I can use a hand drill with supervision</p>	<p>I can demonstrate skill in using different tools and equipment safely and accurately</p> <p>I can cut and join with accuracy to ensure a good quality finished product</p> <p>I can, with confidence, pin, sew and stitch materials together to make a project</p> <p>I can sew under supervision</p> <p>I can use sand paper to smooth edges</p> <p>I can construct products using permanent joining techniques</p> <p>I can use a screwdriver</p>
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Evaluate

Learning Objectives:

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	<p>I can notice what other children and adults do, mirroring what is observed, adding variations and then do it spontaneously</p> <p>I can express and communicate working theories, feelings and understandings</p> <p>I can respond imaginatively to art works and objects</p> <p>I can return to and build on previous learning by refining ideas and developing my ability to represent them</p> <p>I can discuss problems and how they might be solved</p>	<p>I can test my product to see if it functions</p> <p>I can talk about how I would improve my final product if I were to make it again.</p> <p>I can evaluate the functionality of my moving picture</p> <p>I can discuss how I would improve my final product and whether I would use a different mechanism if I created it again</p>	<p>I can discuss existing products and evaluate their purpose</p> <p>I can talk about existing products and how they are appealing to their audience</p> <p>I can evaluate my own, and the work of others, and discuss WWW and EBI</p> <p>I can consider if my product fits its purpose, function and appeal in my evaluation</p>	<p>I can complete market research and evaluate existing products to inform my own design</p> <p>I can describe how my product will be useful and how it appeals to the user</p> <p>I can evaluate my own work linked to the design criteria</p> <p>I can consider the purpose, functionality and product appeal of my product during the evaluation</p> <p>I can evaluate my own work and the work of others and discuss WWW and EBI</p>	<p>I can complete research into what my [product] is and its functionality and evaluate the existing product to formulate my own design</p> <p>I can evaluate the purpose and functionality of my [product] and if it works, linked to my design criteria</p> <p>I can evaluate my product thinking about WWW and EBI</p> <p>I can start to understand how much products cost to make, how sustainable and innovative they are and the impact of products have beyond their intended purpose</p>	<p>I can evaluate existing products and complete market research</p> <p>I can evaluate my own product, identifying strengths and areas for development by carrying out appropriate tests</p> <p>I can evaluate my work by during and at the end of the making process recording where I make modifications</p>	<p>I can evaluate existing products and complete market research</p> <p>I can evaluate my products, identifying strengths and areas for development and carrying out appropriate tests</p> <p>I can evaluate my work both during and at the end of the making process recording where I have made modifications as I go along</p>	<p>I can to understand how much products cost to make, how sustainable and innovative they are and the impact of products have beyond their intended purpose</p>
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Technical Knowledge

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	Learning Objectives
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	<p>I can Develop new skills & techniques</p> <p>I can use tools for a purpose</p>	<p>I can use different techniques for joining materials</p> <p>I can use tools independently, with care and precision</p>	<p>I can begin to understand the terms 'purpose' and 'functionality'</p> <p>I can name basic tools/equipment and know their use/purpose</p> <p>I know what a lever mechanism is and how it works</p> <p>I know what a slider mechanism is and how it works</p> <p>I know what a wheel mechanism is and how it works</p>	<p>I understand the terms purpose functionality and product appeal</p> <p>I know the characteristics of everyday materials and why they are used for different purposes</p> <p>I can understand the terms 'running stitch' and 'cross stitch' when sewing</p> <p>I know the purpose and functionality of wheels, axles and chassis</p> <p>I know there are two ways of attaching wheels to axis</p> <p>I can experiment with different materials and techniques to combine wheels, axles and chassis</p> <p>I can name a variety of equipment used for food preparation and know their uses</p> <p>I can understand the importance of hygiene when handling food</p>	<p>I understand the term aesthetic quality</p> <p>I know how to use a ruler and read a scale in cm to measure accurately</p> <p>I understand the term market research and why this is useful before designing and making a product</p> <p>I can understand why different mechanisms are used for different products</p> <p>I can recognise products that contain lever mechanisms</p> <p>I can discuss the how to adapt my design with the materials that are available</p> <p>I can create a simple algorithm to explain how my product works.</p>	<p>I understand and can use the term aesthetic quality and be able to give examples</p> <p>I can use a ruler and read a scale in cm to measure accurately</p> <p>I can understand the term market research and why it is useful before designing and making a product</p> <p>I can understand and apply the principles of a healthy diet</p> <p>I can understand the structure of a recipe and be able to follow it</p> <p>I can understand the seasonality of, and know where and how a variety of ingredients are grown, reared, caught and processed</p>	<p>I can understand how mechanical systems such as cams and pulleys or gears create movement</p> <p>I can identify different types of wood and what purpose you would use them for</p> <p>I understand that sometimes raw ingredients need to be processed before they can be used in cooking</p> <p>I can understand that recipes can be adapted to change the appearance, taste and aroma of a dish</p>	<p>I understand and can apply the safety procedures needed when using different tools</p> <p>I know how more complex electrical circuits and components can be used to create functional products</p> <p>I know how to program a computer to monitor changes in the environment and control my product</p> <p>I understand that sometimes raw ingredients need to be processed before they can be used in cooking</p> <p>I understand that recipes can be adapted to change the appearance, taste and aroma of a dish</p>
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Food and nutrition

	Learning Objectives:									
	<p>I can talk about the differences between materials & changes they notice I can make healthy choices (i.e. eating healthy, hygiene etc.)</p>	<p>I can know and talk about the different factors that support their overall health and well-being</p>	<p>I can identify and describe familiar fruits and vegetables Design: I can design a recipe that includes fruit and vegetables</p>	<p>I can apply hygiene rules when handling food Make: I can make my food product based on recipe design</p>	<p>I can understand and apply the principles of a healthy diet Evaluate: I can evaluate food product and discuss what I would do differently</p>	<p>I can revise how to use a ruler and read a scale to cm accurately to support my measurements I understand the structure of recipe and can follow a simple one</p>	<p>I can measure volumes of liquids accurately I understand seasonality and where and how a variety of ingredients are grown, reared, caught and processed</p>	<p>I can use the correct knife grip for cutting and spreading accurately I can hold food steady with a fork while chopping/slicing</p>	<p>I can choose from a wide range of ingredients, considering how the ingredients work together I can create and write my own simple recipe</p>	<p>I can prepare and cook a savoury dish using a range of cooking techniques such as, chopping, peeling, grating, slicing, mixing, spreading, kneading and baking I can choose from a wide range of ingredients, considering how the ingredients work together I can create and write my own simple recipe</p>



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